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# United States Patent [19]

## Woods

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### [54] ALARM SWITCH

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335/207

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### [57] ABSTRACT

A magnetic switch apparatus (10) detects relative movement between first (12) and second (14) members and defeats attempted external magnetic manipulation of the apparatus. A rod-shaped, first switch element (20) is positioned transverse to and centrally aligned with a convex, second switch element (22) and spaced therefrom. A ring-shaped first magnet (26) is positioned about the first switch element (20) and spaced from the second element (22) in order to pull a ferromagnetic body (24) into a switch-open position out of contact with the second switch element (22) with these components mounted to the first member (12). A second magnet (18) mounted to the second member (14) is positioned and magnetically sufficient to pull the body (24) into a switch-closed position in contact with both of the switch elements (20, 22) when the members (12, 14) are in an adjacent position.

15 Claims, 1 Drawing Sheet

